



Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Complete if Known</b>	
Sheet	1	of	6
		Application Number	10/669,499
		Filing Date	September 23, 2003
		First Named Inventor	Paulse, Chris D.
		Art Unit	2863
		Examiner Name	Tung S. Lau
		Attorney Docket Number	016866-006211US

U.S. PATENT DOCUMENTS <sup>+</sup>						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
TL	AA	US-4,122,343		10-24-1978	Risby et al.	
	AB	US-5,136,686		08-04-1992	Koza.	
	AC	US-5,687,716		11-18-1997	Kaufmann et al.	
	AD	US-5,697,369		12-16-1997	Long, Jr. et al.	
	AE	US-5,716,825		02-10-1998	Hancock et al.	
	AF	US-5,790,761		08-04-1998	Heseltine et al.	
	AG	US-5,839,438		11-21-1998	Graettinger et al.	
	AH	US-5,905,258		05-18-1999	Clemmer et al.	
	AI	US-5,946,640		08-31-1999	Goodacre et al.	
	AJ	US-6,025,128		02-15-2000	Veltri et al.	
	AK	US-6,128,608		10-03-2000	Bamhill.	
	AL	US-6,157,921		12-05-2000	Bamhill.	
	AM	US-6,329,652 B1		12-11-2001	Windig et al.	
	AN	US-6,427,141 B1		07-30-2002	Bamhill.	
	AO	US-6,558,902 B1		05-06-2003	Hillenkamp	
	AP	US-2002/0046198 A1		04-18-2002	Hitt	
	AQ	US-2002/0138208 A1		09-26-2002	Paulse et al.	
	AR	US-2002/0193950 A1		12-19-2002	Gavin et al.	
	AS	US-2003/0004402 A1		01-02-2003	Hitt et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
TL	AT	WO	01/20043	A1	03-22-2001	Khurgin, et al.		<input type="checkbox"/>
	AU	WO	01/31579	A2	05-03-2001	Guyon, et al.		<input type="checkbox"/>
	AV	WO	01/31580	A2	05-03-2001	Guyon, et al.		<input type="checkbox"/>
	AW	WO	01/84140	A2	11-18-2001	Haller, et al.		<input type="checkbox"/>
	AX	WO	01/99043	A1	12-27-2001	Hitt		<input type="checkbox"/>
	AY	WO	02/06829	A2	01-24-2002	Petricoin, et al.		<input type="checkbox"/>
	AZ	WO	02/059822	A2	08-01-2002	Weston, et al.		<input type="checkbox"/>
TL	BA	WO	02/088744	A2	11-07-2002	Marshall, et al.		<input type="checkbox"/>

Examiner Signature	<i>Tung S. Lau</i>	Date Considered	9-1-04
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				Examiner Name	Tung S. Lau
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NON PATENT LITERATURE DOCUMENTS			
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Th	BB	Alaiya et al., "Classification of Human Ovarian Tumors Using Multivariate Data Analysis of Polypeptide Expression Patterns." Int. J. Cancer, vol. 86, pp. 731-736, Wiley-Liss, Inc., (2000).	
	BC	Ashfaq, et al., "Evaluation of PAPNET.TM. System for Rescreening of Negative Cervical Smears", Diagnostic Cytopathology, 1995, pp. 31-36, vol. 13, No. 1.	
	BD	Astion, et al., The Application of Backpropagation Neural Networks to Problems in Pathology and Laboratory Medicine, Arch Pathol Lab Med, Oct. 1992, pp. 995-1001, vol. 116.	
	BE	Atkinson, Ph.D., et al., "Statistical Techniques for Diagnosing CIN Using Fluorescence Spectroscopy: SVD and CART", Journal of Cellular Biochemistry, Supplement, 1995, pp. 125-130, vol. 23.	
	BF	Babaian, et al., "Performance of a Neural Network in Detecting Prostate Cancer in the Prostate-Specific Antigen Reflex Range of 2.5 to 4.0 ng/mL", Urology, 2000, pp. 1000-1006, vol. 56, No. 6.	
	BG	Bailey-Kellogg et al., "Reducing Mass Degeneracy in SAR by MSby Stable Isotopic Labeling." Journal of Computational Biology, vol. 8, No. 1, pp 19-36, Mary Ann Liebert, Inc., (2001).	
	BH	Belic, "Neural Networks Methodologies for Mass Spectra Recognition", 4 pgs.	
	BI	Belic, et al., "Neural network methodologies for mass spectra recognition", Vacuum, 1997, pp. 633-637, vol. 48, Nos. 7-9.	
	BJ	Berikov, et al., "Regression trees for analysis of mutational spectra in nucleotide sequences", Bioinformatics, 1999, pp. 553-582, vol. 15, Nos. 7/8.	
	BK	Breiman, et al., Chapters 6-8 in Classification and Regression Trees, CRC Press (Boca Raton), 1998, pp. 174-265.	
	BL	Cairns, et al., "Towards the Automated Prescreening of Breast X-Rays", Digest of the IEE Colloquium, Applications of Image Processing in Mass Health Screening, University of Dundee, pp. 1/1-1/5.	
	BM	Caprioli et al. "Molecular Imaging of Biological Samples: Localization of Peptides and Proteins Using MALDI-TOF MS." Analytical Chemistry, vol. 69, No. 23, pp 4751-4760, American Chemical Society, (Dec. 1, 1997).	
	BN	Chaca, et al., "Laboratory integration and utilization of tandem mass spectrometry in neonatal screening: a model for clinical mass spectrometry in the next millennium", Acta Paediatr Supp 432, 1999, pp. 45-47, vol. 88.	
	BO	Chun, et al., "Long-term Identification of Streptomyces Using Pyrolysis Mass Spectrometry and Artificial Neural Networks", Zbl. Bakt., 1997, pp. 258-266, vol. 285.	
	BP	Cicchetti, "Neural Networks and Diagnosis in the Clinical Laboratory: State of the Art", Clin. Chem., 1992, pp. 9-10, vol. 38, No. 1.	
Th	BQ	Crawford, et al., "Computer Methods in Analytical Mass Spectrometry. Empirical Identification of Molecular Class", Analytical Chemistry, Aug., 1988, pp. 1469-1474, vol. 40, No. 10.	

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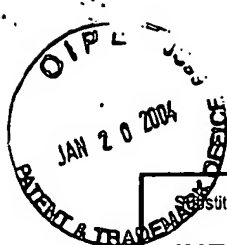
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TL	BR	Curry, et al., "MSnet: A Neural Network That Classifies Mass Spectra", Stanford Science Center, Stanford University, Stanford, California, Oct. 1990, pp. 1-31.	
	BS	Dudoit, et al., "Comparison of Discrimination Methods for the Classification of Tumors Using Gene Expression Data", Technical report #576, Jun. 2000, pp. 1-43.	
	BT	Dudoit, et al., "Comparison of discrimination methods for the classification of tumors using gene expression data", UC Berkeley, Slides, 52 pages, URL= <a href="http://stat-www.berkeley.edu/users/terry/zarray/Html/discr.html">http://stat-www.berkeley.edu/users/terry/zarray/Html/discr.html</a> , (Mar. 7, 2000).	
	BU	Dzeroski, et al., "Diterpene Structure Elucidation From .sup.- C NMR-Spectra With Machine Learning", Chapter 12 in Intelligent Data Analysis in Medicine and Pharmacology, N. Lavrac, et al. ed., Kluwer Academic Publishers (Boston), 1997, pp. 207-225.	
	BV	Eghbaldar, et al., "Identification of Structural Features from Mass Spectrometry Using a Neural Network Approach: Application of Trimethylsilyl Derivatives Used for Medical Diagnosis", J. Chem. Inf. Comput. Sci., 1996, pp. 637-643, vol. 36.	
	BW	Freeman, et al., "Resolution of batch variations in pyrolysis mass spectrometry of bacteria by the use of artificial neural network analysis", Antonie van Leeuwenhoek, 1995, pp. 253-260, vol. 68.	
	BX	Furlong, et al., "Neural Network Analysis of Serial Cardiac Enzyme Data, A Clinical Application of Artificial Machine Intelligence", Am J Clin Pathol, 1991, pp. 134-141, vol. 96.	
	BY	George, "A Visualization and Design Tool (AVID for Data Mining with the Self-Organizing Feature Map." International Journal on Artificial Intelligence Tools, vol. 9, No. 3, pp. 369-375, World Scientific Publishing Company, (2000).	
	BZ	Goodacre, "Rapid identification of urinary tract infection bacteria using hyperspectral whole-organism fingerprinting and artificial neural networks", Microbiology, 1998, pp. 1157-1170, vol. 144.	
	CA	Goodacre, et al., "Correction of Mass Spectral Drift Using Artificial Neural Networks", Anal. Chem., 1996, pp. 271-280, vol. 68.	
	CB	Goodacre, et al., "Identification and Discrimination of Oral Asaccharolytic Eubacterium spp. by Pyrolysis Mass Spectrometry and Artificial Neural Networks", Current Microbiology, 1996, pp. 77-84, vol. 32.	
	CC	Goodacre, et al., "Quantitative Analysis of Multivariate Data Using Artificial Neural Networks: A Tutorial Review and Applications to the Deconvolution of Pyrolysis Mass Spectra", Zbl. Bakt., 1996, pp. 516-539, vol. 284.	
	CD	Goodacre, et al., "Sub-species Discrimination, Using Pyrolysis Mass Spectrometry and Self-organising Neural Networks, of Propionibacterium acnes Isolated from Normal Human Skin", Zbl. Bakt., 1996; pp. 501-515, vol. 284.	
	CE	Goodacre, et al., Discrimination between methicillin-resistant and methicillin-susceptible Staphylococcus aureus using pyrolysis mass spectrometry and artificial neural networks, Journal of Antimicrobial Chemotherapy, 1998, pp. 27-34, vol. 41.	
	CF	Gray, "Constraints on 'Learning Machine' Classification Methods", Analytical Chemistry, Dec. 1976, pp. 2265-2268, vol. 48, No. 14.	
TL	CG	Gustav Schroll, et al., "Applications of Artificial Intelligence for Chemical Inference. III. Aliphatic Ethers Diagnosed by Their Low-Resolution Mass Spectra and Nuclear Magnetic Resonance Data", Journal of the American Chemical Society, Dec. 17, 1969, pp. 7440-7445, vol. 91, No. 26.	

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TL	CH	Halket, et al., "Deconvolution Gas Chromatography/Mass Spectrometry of Urinary Organic Acids—Potential for Pattern Recognition and Automated Identification of Metabolic Disorders", Rapid Commun. Mass Spectrom, 1999, pp. 279-284, vol. 13.	
	CI	Hashemi, et al., "Identifying and Testing of Signatures for Non-Volatile Biomolecules Using Tandem Mass Spectra", Sigbio newsletter, ACM Press, Dec. 1995, pp. 11-19, vol. 15, No. 3.	
	CJ	Hausen, et al., "Determination of Neopterin in Human Urine by Reversed-Phase High-Performance Liquid Chromatography", Journal of Chromatography, 1982, pp. 61-70, vol. 227.	
	CK	Jain, et al., "Statistical Pattern Recognition: A Review", IEEE Transactions on Pattern Analysis and Machine Intelligence, Jan. 2000, pp. 4-37, vol. 22, No. 1.	
	CL	Jellum, et al., "Mass Spectrometry in Diagnosis of Metabolic Disorders", Biomedical and Environmental Mass Spectrometry, 1988, pp. 57-62, vol. 18.	
	CM	Jurs, et al., "Computerized Learning Machines Applied to Chemical Problems. Molecular Formula Determination from Low Resolution Mass Spectrometry", Analytical Chemistry, Jan. 1989, pp. 21-27, vol. 41, No. 1.	
	CN	Kenyon, et al., "Application of Neural Networks to the Analysis of Pyrolysis Mass Spectra", Zbl. Bakt., 1997, pp. 267-277, vol. 285.	
	CO	Kohavi et al., "Wrappers for Feature Subset Selection." Artificial Intelligence, vol. 97, No. 1-2, pp. 273-324, Elsevier Science B.V., (1997).	
	CP	Kohno, et al., "Quantitative Analysis of Scintiscan Matrices by Computer", Japanese Journal of Medical Electronics and Biological Engineering, Aug. 1974, pp. 218-225, vol. 12, No. 4.	
	CQ	Lowry, et al., "Comparison of Various K-Nearest Neighbor Voting Schemes with the Self-Training Interpretive and Retrieval System for Identifying Molecular Substructures from Mass Spectral Data", Analytical Chemistry, Oct. 1977, pp. 1720-1722, vol. 49, No. 12.	
	CR	Macfie, et al., "Use of Canonical Variates Analysis in Differentiation of Bacteria by Pyrolysis Gas-Liquid Chromatography", Journal of General Microbiology, 1978, pp. 67-74, vol. 104.	
	CS	Malins, et al., "Models of DNA structure achieve almost perfect discrimination between normal prostate, benign prostatic hyperplasia (BPH), and adenocarcinoma and have a high potential for predicting BPH and prostate cancer", Proc. Natl. Acad. Sci. USA, Jan. 1997, pp. 259-264, vol. 94.	
	CT	Marvin et al., "Characterization of a novel Sepia officinalis neuropeptide using MALDI-TOF MS and post-source decay analysis." Peptides, vol. 22, No. 9., pp 1391-1396, Elsevier Science Inc., (Sep. 2001).	
	CU	Meuzelaar, et al., "A Technique for Fast and Reproducible Fingerprinting of Bacteria by Pyrolysis Mass Spectrometry", Analytical Chemistry, Mar. 1973, pp. 587-590, vol. 45, No. 3.	
	CV	Meyer, et al., "Identification of the .sup.1 H-NMR Spectra of Complex Oligosaccharides with Artificial Neural Networks", Science, Feb. 1991, pp. 542-544, vol. 251.	
TL	CW	Nikulin, et al., "Near-optimal region selection for feature space reduction: novel preprocessing methods for classifying MR spectra", NMR in Biomedicine, (1998), 209-216, vol. 11.	

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TL	CX	Nilsson, et al., "Classification of Species in the Genus Penicillium by Curie Point Pyrolysis/Mass Spectrometry Followed by Multivariate Analysis and Artificial Neural Networks", Journal of Mass Spectrometry, 1996, pp. 1422-1428, vol. 31.		
	CY	Oh et al., "A Database of Protein Expression in Lung Cancer." Proteomics, 1, pp. 1303-1319, WILEY-VCH Verlag GmbH, (2001).		
	CZ	Paweletz, et al., "Rapid Protein Display Profiling of Cancer Progression Directly From Human tissue Using a Protein Biochip", Drug Development Research, 2000pp. 34-42, vol. 49.		
	DA	Prior, et al., "Potential of Urinary Neopterin Excretion in Differentiating Chronic Non-A, Non-B Hepatitis From Fatty Liver", The Lancet, Nov. 1987, pp. 1235-1237.		
	DB	Reibnegger, et al., "Neural networks as a tool for utilizing laboratory information: Comparison with linear discriminant analysis and with classification and regression trees", Proc. Natl. Acad. Sci. USA, Dec. 1991. pp. 11426-11430, vol. 88.		
	DC	Ricketts, et al., "Towards the Automated Prescreening of Cervical Smears", IEE Colloquium on Applications of Image Processing in Mass Health Screening. Digest No. 056, Mar. 11, 1992, pp. 7/1-7/4.		
	DD	Salford Systems White Paper Series, <a href="http://www.salford-systems.com/whitepaper.html">http://www.salford-systems.com/whitepaper.html</a> , printed Oct. 17, 2000.		
	DE	Shaw, et al., "Infrared Spectroscopy of Exfoliated Cervical Cell Specimens", Analytical and Quantitative Cytology and Histology, Aug. 1999, pp. 292-302, vol. 21, No. 4.		
	DF	Shevchenko, et al., "MALDI Quadrupole Time-of-Flight Mass Spectrometry: A Powerful Tool for Proteomic Research", Anal. Chem., 2000, pp. 2132-2141, vol. 72, No. 9.		
	DG	Strouthopoulos et al., "PLA using RLSA and a Neural Network." Engineering Applications of Artificial Intelligence, vol. 12, No. 2, pp. 119-138, Elsevier Science Ltd., (1999).		
	DH	Taylor et al., "The Deconvolution of Pyrolysis Mass Spectra using Genetic Programming: Application to the Identification of Some Eubacterium Species." FEMS Microbiology Letters, 160, pp. 237-246, Elsevier Science B.V., (1998).		
	DI	Taylor, "The deconvolution of pyrolysis mass spectra using genetic programming: application to the identification of some Eubacterium species", FEMS Microbiology Letters, 1998, pp. 237-246, vol. 160.		
	DJ	Tong, et al., "Mass Spectral Search method using the Neural Network approach", Proceedings, International Joint Conference on Neural Networks, Washington, DC, Jul. 1999. pp. 3962-3967, vol. 6.		
	DK	Tong, et al., "Mass spectral search method using the neural network approach", Chemometrics and Intelligent Laboratory Systems, 1999, pp. 135-150, vol. 49.		
	DL	Voorhees, et al., "Approaches to Pyrolysis/Mass Spectrometry Data Analysis of Biological Materials", Chapter 11 in Computer-Enhanced Analytical Spectroscopy, H.L.C. Meuzelaar ed., Plenum Press (New York), 1990, pp. 259-275, vol. 2.		
TL	DM	Werther, et al., "Classification of mass spectra, A comparison of yes/no classification methods for the recognition of simple structural properties", Chemometrics and Intelligent Laboratory Systems, 1994, pp. 63-76, vol. 22.		

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TL	DN	Wythoff, et al., "Spectral Peak Verification and Recognition Using a Multilayered Neural Network", Anal. Chem., 1990, pp. 2702-2709, vol. 62.	
TL	DO	Yates, III, et. al., "Mass Spectrometry and the Age of the Proteome", Journal of Mass Spectrometry, 1998, pp. 1-19, vol. 33.	
TL	DP	Zhang, "Combining Multiple Biomarkers in Clinical Diagnostics--A Review of Methods and Issues." pp. 1-14.	

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